

Session Program

12-17 Jul 2026



**European Conference on Mathematical and Theoretical
Biology (ECMTB 2026)**

***Optimal Control and Numerical Simulation Methods for
Disease Tracking, Diagnosis and Treatment***

University of Graz

Wednesday 15 July

11:10

Optimal Control and Numerical Simulation Methods for Disease Tracking, Diagnosis and Treatment

Session | Location: University of Graz, 15.05 - HS

11:10–11:30 **Modeling of DNA origami electrochemical signaling for optimal biosensor design**

Speaker

Allison Carson

11:30–11:50 **Restoring immune regulation in cancer: a multifaceted optimization problem**

Speaker

Anne Talkington

11:50–12:10 **Mathematical Model for Penetration of Zona Pellucida**

Speaker

Prajakta Bedekar

12:10–12:30 **Probabilistic Modeling of Antibody Kinetics Post Infection and Vaccination**

Speaker

Rayanne Luke

12:30